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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,271	01/21/2004	Kia Silverbrook	RRA25US	1032
24011	7590	03/23/2006	EXAMINER	
SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, NSW 2041 AUSTRALIA			UHLENHAKKE, JASON S	
			ART UNIT	PAPER NUMBER
			2853	

DATE MAILED: 03/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/760,271	Applicant(s) SILVERBROOK, KIA	
	Examiner Jason Uhlenhake	Art Unit 2853	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 2/28/2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schalk et al (U.S. Pat. 6,749,298) in view of Ando et al (U.S. Pat. 6,631,963).

Schalk et al discloses:

- ***regarding claim 1***, a number of mechanisms auxiliary to cartridge including a print media transport assembly and printhead capper drive assembly; a single motor; a transmission assembly coupling the single motor to each of the number of mechanisms (wiping, capping, media transport assembly, pick assembly, feed assembly) (Column 1, Lines 45 – 60; Column 3, Lines 1 – 17; Column 4, Lines 15 – 30)

Schalk et al does not disclose expressly:

- ***regarding claim 1***, inkjet printer cradle complementary to an inkjet printer cartridge of a type including a pagewidth printhead

Ando et al discloses:

- ***regarding claim 1***, inkjet printer cradle complementary to an inkjet printer cartridge of a type including a page-width printhead (120) (Figure 1; Column 4; Lines 59 – 67; Column 5, Lines 1 – 11), for the purpose of improving printing speed of the apparatus.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of inkjet printer cradle complementary to an inkjet printer cartridge of a type including a page-width printhead as taught by Ando et al into the device of Schalk et al. The motivation would have been to improve the printing speed of the apparatus.

Claim 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schalk et al (U.S. Pat. 6,749,298) as modified by Ando et al (U.S. Pat. 6,631,963) as applied to claim 1 above, and further in view of Horikoshi et al (U.S. Pat. 4,832,918).

Schalk et al as modified by Ando et al discloses:

- ***regarding claim 2***, wherein the number of mechanisms include a print media transport assembly (Figure 1; Column 2, Lines 29 – 38)

Schalk et al as modified by Ando et al does not disclose expressly:

- ***regarding claim 2***, wherein the number of mechanisms include an air compressor
- ***regarding claim 3***, wherein the transmission assembly includes a direct drive coupling between the compressor and the spindle/shaft of the motor

Horikoshi et al discloses:

- ***regarding claim 2***, wherein the number of mechanisms include an air compressor (Column 2, Lines 12 – 16; 1 of Figure 1). For the purpose of producing air used to remove particles from the printing apparatus.

- **regarding claim 3**, wherein the transmission assembly includes a direct drive coupling between the compressor (1) and the spindle (8, motor shaft) of the motor (4) (Figure 1), for the purpose of operating the air compressor by the single motor.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of number of mechanisms include an air compressor; the transmission assembly includes a direct drive coupling between the compressor and the spindle of the motor as taught by Horikoshi et al into the device of Schalk et al as modified by Ando et al. The motivation for doing so would have been to produce air used to remove particles from the printing apparatus; purpose of operating the air compressor by the single motor.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schalk et al (U.S. Pat. 6,749,298) as modified by Ando et al (U.S. Pat. 6,631,963) as applied to claim 1 above, and further in view of Hansen et al (U.S. Pat. 4,719,474) and Bauer (U.S. Pub. 2003/0063151)

Schalk et al as modified by Ando et al disclose all of the above limitation except for the following:

- **regarding claim 4**, a worm gear extended from a spindle of the motor and meshed with a cog of the print media transport assembly and a cog of the printhead caper drive assembly

Hansen et al discloses:

- **regarding claim 4**, a worm gear extended from a spindle of the motor (94, Figures 2, 3) and meshed with a cog of the print media transport assembly (Figure 9; Column 5, Lines 49 – 60), for the purpose of transporting media through the transport assembly of the printing apparatus.

Bauer discloses:

- **regarding claim 4**, a print media transport assembly and a printhead capper drive assembly driven by a motor (Paragraph 0027), for the purpose of controlling multiple mechanisms of the apparatus.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of a worm gear extended from a spindle of the motor and meshed with a cog of the print media transport assembly and a cog of the printhead capper drive assembly as taught by Hansen and Bauer into the device of Schalk et al as modified by Ando et al. The motivation would have been to transport media through the transport assembly of the printing apparatus and control multiple mechanisms of the apparatus.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schalk et al (U.S. Pat 6,749,298) in view of Ando et al (U.S. Pat. 6,631,963) and Horikoshi et al (U.S. Pat. 4,832,918)

Schalk et al discloses:

- **regarding claim 5**, a print media transport assembly arranged to convey print media across the printhead; a single motor (Column 1, Lines 45 – 60)

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- a transmission assembly coupling the single motor to the print media transport (Column 1, Lines 45 – 60; Column 4, Lines 15 – 30)
- a geared coupling form the spindle to the print media transport assembly (Column 3, Lines 60 – 68; Column 4, Lines 1 – 13; Column 5, Lines 8 – 18)

Schalk et al does not disclose expressly the following:

- ***regarding claim 5***, inkjet printer cradle complementary to an inkjet printer cartridge of a type including a pagewidth printhead
- an air compressor for producing air to be directed over the pagewidth printhead; couple the single motor to the air compressor; wherein the transmission assembly includes a direct drive coupling from a spindle of the single motor to the air compressor

Ando et al discloses:

- ***regarding claim 1***, inkjet printer cradle complementary to an inkjet printer cartridge of a type including a page-width printhead (120) (Figure 1; Column 4; Lines 59 – 67; Column 5, Lines 1 – 11), for the purpose of improved printing speed of the apparatus.

Horikoshi et al discloses:

- ***regarding claim 5***, an air compressor for producing air to be directed over the page-width printhead; couple the single motor to the air compressor; transmission assembly includes a direct drive coupling between the compressor (1) and the spindle (8, motor shaft) of the motor (4) (Figure 1). For the purpose of operating the air

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compressor by the single motor and to produce air used to remove particles from the printing apparatus.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of inkjet printer cradle complementary to an inkjet printer cartridge of a type including a page-width printhead; an air compressor for producing air to be directed over the page-width printhead; couple the single motor to the air compressor; wherein the transmission assembly includes a direct drive coupling from a spindle of the single motor to the air compressor as taught by Ando et al and Horikoshi et al into the device of Schalk et al. The motivation for doing so would have been improved printing speed of the apparatus; operating the air compressor by the single motor and to produce air used to remove particles from the printing apparatus.

Response to Arguments

Applicant's arguments with respect to claims 1 - 5 have been considered but are moot in view of the new ground(s) of rejection. Please see the above rejections regarding Schalk et al as modified by Ando et al in view of Horikoshi et al, and Schalk et al as modified by Ando et al in view of Hansen et al. They disclose a number of mechanisms auxiliary to cartridge, page-width printhead; a single motor; a transmission assembly coupling the single motor to each of the number of mechanisms; a worm gear extended from a spindle of the motor and meshed with a cog of the print media transport assembly, and a transmission assembly that includes a direct drive coupling

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(connection) between the compressor and the spindle of the motor. Horikoshi et al discloses a compressor (1) and a motor (4) that are directly coupled by a motor shaft (8, Figure 1).

Applicant argues regarding only motivation would be to provide separate motors for the print media transport and capper driving assemblies and the air compressor. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, One skilled in the art would not use separate motors for different mechanisms when they already have a single motor in the device.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

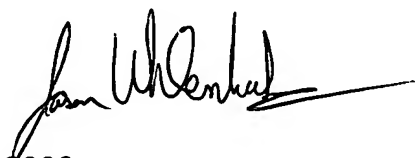
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Uhlenhake whose telephone number is (571) 272-5916. The examiner can normally be reached on Monday - Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JSU
March 8, 2006



 3/06
K. J. FIGGINS
PRIMARY EXAMINER